



# ***Kämmer Actuators Series 5***

## ***Electric Actuator***



***Experience In Motion***

# Actuators Series 5

## Description

Kammer electric actuator models E2, E3, E4 and E5 are electric thrust units designed for precise positioning applications and low maintenance operation.

All component parts are contained within a robust housing and protected against contamination. The rotary motion of the motor is transmitted by the gearbox to the actuator stem. An anti-rotation flange ensures that the actuator stem does not rotate.

Two torque-dependent switches de-activate the motor then the pre-set actuating thrust is reached.

If the power fails the actuator can be operated by an engageable handwheel.

### Electronic positioner

Kammer series 5 actuators are available with an integral positioning unit (optional). This advanced positioner design allows the direct connection of the electric actuator to an electronic controller.

## Technical Data

<b>Actuating thrust</b>	60 - 2400 daN
<b>Stroke</b>	10 - 40 mm
<b>Actuating time</b>	See table on page 3
<b>Actuating speed</b>	See table on page 3
<b>Electric motor</b>	Single phase AC capacitor motor, reversible, short circuit proof, self-locking when currentless
<b>Power supply</b>	220 V, 50 Hz; 24 V, 50 Hz or 110 V, 60 Hz optional (other voltages on request)
<b>Temperature range</b>	-20 to +60 °C, (-5 to +140 °F)
<b>Protection</b>	IP 65 according to DIN 40050
<b>Limit switching</b>	Torque dependent switches
<b>Feedback potentiometer</b>	1000 ohms or others
<b>Intermediate switches</b>	2 microswitches, adjustable from 0 to 100% of travel
<b>Heat resistor</b>	Optional
<b>Electrical connections</b>	Wiring to marked terminals via Pg 9 on actuators E2 and E3, Pg 11 on actuators E4 and E5
<b>Actuator housing</b>	Aluminium with epoxy resin coating
<b>Electronic positioner</b>	
<b>Signal range</b>	0/4 - 20 mA optional split range and 0/2 - 10 V
<b>Power supply</b>	230 V, 50 Hz; 24 V, 50 Hz or 110 V, 60 Hz optional
<b>Operating sensitivity</b>	≤ 0.1%
<b>Hysteresis</b>	2%

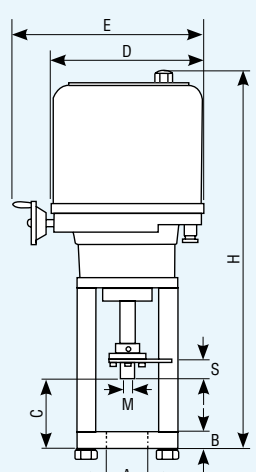
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### Actuating Thrust (daN) Relative to Actuating Time

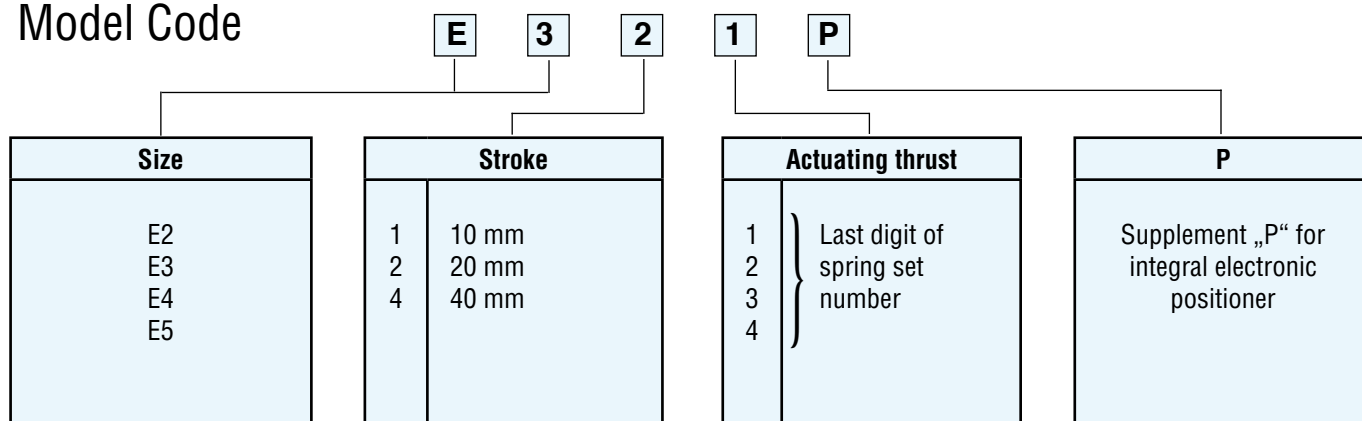
Actuator Model	No. of Yoke rods	Actuating Thrust (daN)	Actuating Thrust Code No.	Actuating Time (s)			Actuating Speed (mm/min.)
				Stroke 10	Stroke 20	Stroke 40	
E2	2	60	1	75	-	-	8
E3	2	120	1	24	-	-	25
		200	2	40	-	-	15
	3	120	1	24	48	-	25
		200	2	40	80	-	15
		350	3	12/24	24/48	-	50/25
		450	4	12/24	24/48	-	50/25
E4	3	450	1	-	24/48	48/96	50/25
		650	2	-			
		800	3	-			
		1200	4	-			
E5	3	1000	1	-	24/48	48/96	50/25
		1500	2	-			
		2000	3	-			
		2400	4	-			

### Dimensions [mm] and Weights [kg]

Actuator model	E2	E3		E4	E5
No. of yoke rods	2	2	3	3	3
S stroke	10	10	10/20	20/40	20/40
A ø standard	20/30	20	30	30/38/45	45
B	8/12	8	10	10/15	15
C	55/84	55	80	80	80
D ø	130	150	150	190	215
E	-	190	190	250	275
H standard	230/260	365	410	460	620
H with positioner	270/300	380	425	475	635
M internal thread	M4/M6	M6	M6/M10	M10	M16
Weight	2.0	6.5	7.5	11.5	19.0



### Model Code





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FCD KMENBR0024-00 - 09.06

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